

Xavier Ottenwaelder

List of Publications by Year in descending order

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56
papers

3,570
citations

172457

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63
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docs citations

63
times ranked

3644
citing authors

#	ARTICLE	IF	CITATIONS
1	Intramolecular H-bond stabilization of a primary hydroxylamine in salen-type metal complexes. <i>Chemical Communications</i> , 2021, 57, 10403-10406.	4.1	1
2	Programmed Synthesis of Tetra-Aryl Thiophenes with Stepwise, Ester-Controlled Regioselectivity. <i>Organic Letters</i> , 2021, 23, 7348-7352.	4.6	9
3	Mechanochemistry in transition metal-catalyzed reactions. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2021, 32, 100524.	5.9	22
4	Five Nitrogen Oxidation States from Nitro to Amine: Stabilization and Reactivity of a Metastable Arylhydroxylamine Complex. <i>Journal of the American Chemical Society</i> , 2020, 142, 19023-19028.	13.7	7
5	Tuning Inner-Sphere Electron Transfer in a Series of Copper/Nitrosoarene Adducts. <i>Inorganic Chemistry</i> , 2020, 59, 8678-8689.	4.0	6
6	Ligand and electronic effects on copper-arylnitroso self-assembly. <i>New Journal of Chemistry</i> , 2018, 42, 7758-7764.	2.8	8
7	Bio-inspired oxidation chemistry of a Cu(II)-fluoride cryptate with C ₃ -symmetry. <i>Inorganica Chimica Acta</i> , 2018, 481, 106-112.	2.4	4
8	Solvent-free mechanochemical oxidation and reduction of biomass-derived 5-hydroxymethyl furfural. <i>Green Chemistry</i> , 2018, 20, 5261-5265.	9.0	19
9	Development of 3,5-Di- <i>tert</i> -butylphenol as a Model Substrate for Biomimetic Aerobic Copper Catalysis. <i>Synlett</i> , 2017, 28, 1548-1553.	1.8	3
10	Extremely Small Iron Oxide Nanoparticles Stabilized with Catechol-Functionalized Multidentate Block Copolymer for Enhanced MRI. <i>ChemistrySelect</i> , 2016, 1, 4087-4091.	1.5	9
11	Supramolecular control of monooxygenase reactivity in a copper cryptate. <i>Dalton Transactions</i> , 2016, 45, 11109-11119.	3.3	8
12	Synthesis of Highly Functionalized Triarylbi-muthines by Functional Group Manipulation and Use in Palladium- and Copper-Catalyzed Arylation Reactions. <i>Journal of Organic Chemistry</i> , 2016, 81, 5401-5416.	3.2	58
13	Homochiral crystal generation via sequential dehydration and Viedma ripening. <i>CrystEngComm</i> , 2016, 18, 4277-4280.	2.6	5
14	A bio-inspired synthesis of oxindoles by catalytic aerobic dual C-H functionalization of phenols. <i>Chemical Science</i> , 2016, 7, 358-369.	7.4	32
15	Catalytic aerobic oxidation of phenols to ortho-quinones with air-stable copper precatalysts. <i>Dalton Transactions</i> , 2015, 44, 12094-12097.	3.3	25
16	Controlled nitrene transfer from a tyrosinase-like arylnitroso-copper complex. <i>Chemical Communications</i> , 2015, 51, 11206-11209.	4.1	14
17	A Biomimetic Mechanism for the Copper-Catalyzed Aerobic Oxygenation of 4- <i>tert</i> -Butylphenol. <i>Inorganic Chemistry</i> , 2015, 54, 8665-8672.	4.0	61
18	Redox Noninnocence of the Bridge in Copper(II) Salophen and Bis(oxamato) Complexes. <i>Inorganic Chemistry</i> , 2015, 54, 9013-9026.	4.0	38

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19	Asymmetric Synthesis of Fortucine and Reassignment of Its Absolute Configuration. <i>Chemistry - A European Journal</i> , 2014, 20, 7581-7584.	3.3	35
20	Asymmetric Synthesis of Fortucine and Reassignment of Its Absolute Configuration. <i>Chemistry - A European Journal</i> , 2014, 20, 7529-7529.	3.3	0
21	Synthesis of a sulfonamide-Schiff base ligand and its Cu(II), Fe(III) and Co(III) complexes. <i>Inorganica Chimica Acta</i> , 2013, 407, 25-30.	2.4	7
22	High-yield synthesis of potentially ditopic coordinating cryptands and their metal complexes. <i>Tetrahedron Letters</i> , 2013, 54, 3363-3365.	1.4	3
23	Reversible Double Oxidation and Protonation of the Non-Innocent Bridge in a Nickel(II) Salophen Complex. <i>Inorganic Chemistry</i> , 2012, 51, 12796-12804.	4.0	37
24	The two spin states of an end-on copper(ii)-superoxide mimic. <i>Chemical Communications</i> , 2011, 47, 8055.	4.1	26
25	Charge-assisted hydrogen bond-directed self-assembly of an amphiphilic zwitterionic quinonemonoimine at the liquid/solid interface. <i>Chemical Communications</i> , 2011, 47, 11255.	4.1	29
26	Electrocatalytic O ₂ Reduction by Covalently Immobilized Mononuclear Copper(I) Complexes: Evidence for a Binuclear Cu ₂ O ₂ Intermediate. <i>Journal of the American Chemical Society</i> , 2011, 133, 3696-3699.	13.7	132
27	Formation and Reactivity of a Biomimetic Hydroperoxocopper(II) Cryptate. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 4204-4211.	2.0	10
28	Oxygen-atom transfer to a nucleophilic molybdenum complex. <i>Dalton Transactions</i> , 2010, 39, 2644.	3.3	1
29	Three-Coordinate Terminal Imidoiron(III) Complexes: Structure, Spectroscopy, and Mechanism of Formation. <i>Inorganic Chemistry</i> , 2010, 49, 6172-6187.	4.0	95
30	Ferromagnetic Coupling by Spin Polarization in a Trinuclear Copper(II) Metallacyclophane with a Triangular Cage-Like Structure. <i>Inorganic Chemistry</i> , 2009, 48, 5244-5249.	4.0	47
31	Propylene Polymerization with Cyclopentadienyltitanium(IV) Hydroxylaminate Complexes. <i>Organometallics</i> , 2009, 28, 405-412.	2.3	19
32	Ligand design for multidimensional magnetic materials: a metallosupramolecular perspective. <i>Dalton Transactions</i> , 2008, , 2780.	3.3	244
33	Kinetic and Mechanistic Studies of the Electrocatalytic Reduction of O ₂ to H ₂ O with Mononuclear Cu Complexes of Substituted 1,10-Phenanthrolines. <i>Journal of Physical Chemistry A</i> , 2007, 111, 12641-12650.	2.5	100
34	Electronic and electrochemical properties of cationic complexes [Fe(R-Sal)2Trien] ⁺ in solution: Evidence of formation of phenoxyl radicals upon oxidation. <i>Inorganic Chemistry Communication</i> , 2007, 10, 1549-1553.	3.9	3
35	Reversible O-O Bond Cleavage in Copper-Dioxygen Isomers: Impact of Anion Basicity. <i>Journal of the American Chemical Society</i> , 2006, 128, 9268-9269.	13.7	67
36	Synthesis, structure, spectroscopy and redox chemistry of square-planar nickel(ii) complexes with tetradentate o-phenylenedioxamidates and related ligands. <i>Dalton Transactions</i> , 2005, , 2516.	3.3	62

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37	Synthesis, structure, and olefin polymerization with nickel(ii) N-heterocyclic carbene enolates. <i>Chemical Communications</i> , 2005, , 5693.	4.1	86
38	Bis(1/4-oxo)dicopper(III) Complexes of a Homologous Series of Simple Peralkylated 1,2-Diamines: A Steric Modulation of Structure, Stability, and Reactivity. <i>Inorganic Chemistry</i> , 2005, 44, 7345-7364.	4.0	102
39	Molecular and electronic structure of square-planar nickel(ii), nickel(iii) and nickel(iii) π -cation radical complexes with a tetradentate o-phenylenedioxamidate redox-active ligand. <i>Dalton Transactions</i> , 2005, , 2527.	3.3	36
40	Structure and Spectroscopy of Copper π -Dioxygen Complexes. <i>Chemical Reviews</i> , 2004, 104, 1013-1046.	47.7	1,253
41	Rational Design of an Enneanuclear Copper(II) Complex with a Metallacyclophane Core. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 850-852.	13.8	56
42	Structure and Spectroscopy of Copper π -Dioxygen Complexes. <i>ChemInform</i> , 2004, 35, no.	0.0	0
43	From metal to ligand electroactivity in nickel(ii) oxamato complexes. <i>Chemical Communications</i> , 2004, , 504-505.	4.1	55
44	Self-assembly and magnetic properties of a double-propeller octanuclear copper(ii) complex with a meso-helicate-type metallacryptand core. <i>Chemical Communications</i> , 2004, , 920-921.	4.1	28
45	Spin Control in Ladderlike Hexanuclear Copper(II) Complexes with Metallacyclophane Cores. <i>Inorganic Chemistry</i> , 2004, 43, 2768-2770.	4.0	43
46	Magnetic Anisotropy of a High-Spin Octanuclear Nickel(II) Complex with a meso-Helicate Core. <i>Inorganic Chemistry</i> , 2004, 43, 7594-7596.	4.0	41
47	Long-Range Magnetic Coupling through Extended π -Conjugated Aromatic Bridges in Dinuclear Copper(II) Metallacyclophanes. <i>Journal of the American Chemical Society</i> , 2003, 125, 10770-10771.	13.7	103
48	A Unique Heterotopic Ligand for Sequential Synthesis of Polymetallic Complexes. <i>European Journal of Inorganic Chemistry</i> , 2002, 2002, 323-325.	2.0	25
49	Alcohol Oxidation by Dioxygen and Aldehydes Catalysed by Square-Planar Cobalt(III) Complexes of Disubstituted Oxamides and Related Ligands. <i>European Journal of Organic Chemistry</i> , 2001, 2001, 1235-1247.	2.4	61
50	Ferromagnetic Coupling through Spin Polarization in a Dinuclear Copper(II) Metallacyclophane. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 3039-3042.	13.8	150
51	Rational Design of Homo and Hetero Hexanuclear Coordination Compounds: Syntheses and Magnetic Properties of $[\text{Cu}_2\text{IM}_4\text{II}]$ (M = Cu, Ni) Species and the Crystal Structure of $\{[\text{Cu}(\text{tmen})(\text{H}_2\text{O})]_2[\text{Cu}_2\text{L}](\text{H}_2\text{O})\}(\text{ClO}_4)_4 \cdot 2\text{H}_2\text{O}$. <i>European Journal of Inorganic Chemistry</i> , 2000, 2000, 951-957.	2.0	31
52	An Na_8 Cluster in the Structure of a Novel Oxamato-Bridged NaICuII Three-Dimensional Coordination Polymer. <i>European Journal of Inorganic Chemistry</i> , 1999, 1999, 209-212.	2.0	16
53	A Square-Planar Dinickel(II) Complex with a Noninnocent Dinucleating Oxamate Ligand: Evidence for a Ligand Radical Species. <i>European Journal of Inorganic Chemistry</i> , 1999, 1999, 1067-1071.	2.0	41
54	Aerobic epoxidation of olefins catalysed by square-planar nickel(II) complexes of bis-N, N α^2 -disubstituted oxamides and related ligands. <i>Tetrahedron Letters</i> , 1998, 39, 2869-2872.	1.4	33

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55	Stabilization of copper(III) complexes by substituted oxamate ligands. Journal of the Chemical Society Dalton Transactions, 1998, , 781-790.	1.1	92
56	Aerobic epoxidation of olefins catalysed by square-planar cobalt(III) complexes of bis-N,N ² -disubstituted oxamides and related ligands. Tetrahedron Letters, 1997, 38, 2377-2380.	1.4	37